



SEQUENCE LISTING

<110> Finlay, Brett B.
Kenny, Brendant
Devinney, Rebekah
Stein, Marcus

<120> HOST RECEPTOR FOR PATHOGENIC BACTERIA

<130> 482112.402

<140> 09/189,415

<141> 1998-11-10

<150> 60/065,130

<151> 1997-11-12

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<170> PatentIn Ver. 2.1

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<212> DNA

<213> Escherichia coli

<400> 1

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<210> 2

<211> 549

<212> PRT

<213> Escherichia coli

<220>

<221> VARIANT

<222> (314)

<223> Xaa = any amino acid

<400> 2

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20 25 30

Gly Thr Gly His Leu Ile Ser Ser Thr Gly Ala Leu Gly Ser Arg Ser
35 40 45

Leu Phe Ser Pro Leu Arg Asn Ser Met Ala Asp Ser Val Asp Ser Arg
50 55 60

Asp Ile Pro Gly Leu Pro Thr Asn Pro Ser Arg Leu Ala Ala Ala Thr
65 70 75 80

Ser Glu Thr Cys Leu Leu Gly Gly Phe Glu Val Leu His Asp Lys Gly
85 90 95

Pro Leu Asp Ile Leu Asn Thr Gln Ile Gly Pro Ser Ala Phe Arg Val
100 105 110

Glu Val Gln Ala Asp Gly Thr His Ala Ala Ile Gly Glu Lys Asn Gly
115 120 125

Leu Glu Val Ser Val Thr Leu Ser Pro Gln Glu Trp Ser Ser Leu Gln
 130 135 140
 Ser Ile Asp Thr Glu Gly Lys Asn Arg Phe Val Phe Thr Gly Gly Arg
 145 150 155 160
 Gly Gly Ser Gly His Pro Met Val Thr Val Ala Ser Asp Ile Ala Glu
 165 170 175
 Ala Arg Thr Arg Ile Leu Ala Lys Leu Asp Pro Asp Asn His Gly Gly
 180 185 190
 Arg Gln Pro Lys Asp Val Asp Thr Arg Ser Val Gly Val Gly Ser Ala
 195 200 205
 Ser Gly Ile Asp Asp Gly Val Val Ser Glu Thr His Thr Ser Thr Thr
 210 215 220
 Asn Ser Ser Val Arg Ser Asp Pro Lys Phe Trp Val Ser Val Gly Ala
 225 230 235 240
 Ile Ala Ala Gly Leu Ala Gly Leu Ala Ala Thr Gly Ile Ala Gln Ala
 245 250 255
 Leu Ala Leu Thr Pro Glu Pro Asp Asp Pro Thr Thr Thr Asp Pro Asp
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 Gln Ala Ala Asn Ala Ala Glu Ser Ala Thr Lys Asp Gln Leu Thr Gln
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 Glu Ala Phe Lys Asn Pro Glu Asn Gln Lys Val Asn Ile Asp Ala Asn
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 Gly Asn Ala Ile Pro Ser Gly Glu Leu Xaa Asp Asp Ile Val Glu Gln
 305 310 315 320
 Ile Ala Gln Gln Ala Lys Glu Ala Gly Glu Val Ala Arg Gln Gln Ala
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 Val Glu Ser Asn Ala Gln Ala Gln Gln Arg Tyr Glu Asp Gln His Ala
 340 345 350
 Arg Arg Gln Glu Glu Leu Gln Leu Ser Ser Gly Ile Gly Tyr Gly Leu
 355 360 365
 Ser Ser Ala Leu Ile Val Ala Gly Gly Ile Gly Ala Gly Val Thr Thr
 370 375 380

Ala Leu His Arg Arg Asn Gln Pro Ala Glu Gln Thr Thr Thr Thr Thr
 385 390 395 400

Thr His Thr Val Val Gln Gln Gln Thr Gly Gly Ile Pro Gln His Lys
 405 410 415

Val Ala Leu Met Pro Gln Glu Arg Arg Arg Phe Ser Asp Arg Arg Asp
 420 425 430

Ser Gln Gly Ser Val Ala Ser Thr His Trp Ser Asp Ser Ser Ser Glu
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Val Val Asn Pro Tyr Ala Glu Val Gly Gly Ala Arg Asn Ser Leu Ser
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Ala His Gln Pro Glu Glu His Ile Tyr Asp Glu Val Ala Ala Asp Pro
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Gly Tyr Ser Val Ile Gln Asn Phe Ser Gly Ser Gly Pro Val Thr Gly
 485 490 495

Arg Leu Ile Gly Thr Pro Gly Gln Gly Ile Gln Ser Thr Tyr Ala Leu
 500 505 510

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 <212> DNA
 <213> Escherichia coli

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<210> 4

<211> 559

<212> PRT

<213> Escherichia coli

<400> 4

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Pro Pro Ala Pro Pro Leu Pro Ser Gln Thr Asp Gly Ala Gly Gly Arg
      20             25            30

```

```

Gly Gln Leu Ile Asn Ser Thr Gly Pro Leu Gly Ser Arg Ala Leu Phe
      35             40            45

```

```

Thr Pro Val Arg Asn Ser Met Ala Asp Ser Gly Asp Asn Arg Ala Ser
      50             55            60

```

```

Asp Val Pro Gly Leu Pro Val Asn Pro Met Arg Leu Ala Ala Ser Glu
      65             70            75            80

```

```

Ile Thr Leu Asn Asp Gly Phe Glu Val Leu His Asp His Gly Pro Leu
      85             90            95

```

```

Asp Thr Leu Asn Arg Gln Ile Gly Ser Ser Val Phe Arg Val Glu Thr

```

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Gln Glu Asp Gly Lys His Ile Ala Val Gly Gln Arg Asn Gly Val Glu		
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Asp Pro Glu Gly Lys Asp Lys Phe Val Phe Thr Gly Gly Arg Gly Gly		
145	150	155 160
Ala Gly His Ala Met Val Thr Val Ala Ser Asp Ile Thr Glu Ala Arg		
165	170	175
Gln Arg Ile Leu Glu Leu Leu Glu Pro Lys Gly Thr Gly Glu Ser Lys		
180	185	190
Gly Ala Gly Glu Ser Lys Gly Val Gly Glu Leu Arg Glu Ser Asn Ser		
195	200	205
Gly Ala Glu Asn Thr Thr Glu Thr Gln Thr Ser Thr Ser Thr Ser Ser		
210	215	220
Leu Arg Ser Asp Pro Lys Leu Trp Leu Ala Leu Gly Thr Val Ala Thr		
225	230	235 240
Gly Leu Ile Gly Leu Ala Ala Thr Gly Ile Val Gln Ala Leu Ala Leu		
245	250	255
Thr Pro Glu Pro Asp Ser Pro Thr Thr Thr Asp Pro Asp Ala Ala Ala		
260	265	270
Ser Ala Thr Glu Thr Ala Thr Arg Asp Gln Leu Thr Lys Glu Ala Phe		
275	280	285
Gln Asn Pro Asp Asn Gln Lys Val Asn Ile Asp Glu Leu Gly Asn Ala		
290	295	300
Ile Pro Ser Gly Val Leu Lys Asp Asp Val Val Ala Asn Ile Glu Glu		
305	310	315 320
Gln Ala Lys Ala Ala Gly Glu Glu Ala Lys Gln Gln Ala Ile Glu Asn		
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Asn Ala Gln Ala Gln Lys Lys Tyr Asp Glu Gln Gln Ala Lys Arg Gln		
340	345	350
Glu Glu Leu Lys Val Ser Ser Gly Ala Gly Tyr Gly Leu Ser Gly Ala		

355 360 365
 Leu Ile Leu Gly Gly Gly Ile Gly Val Ala Val Thr Ala Ala Leu His
 370 375 380
 Arg Lys Asn Gln Pro Val Glu Gln Thr Thr Thr Thr Thr Thr Thr Thr
 385 390 395 400
 Thr Thr Thr Ser Ala Arg Thr Val Glu Asn Lys Pro Ala Asn Asn Thr
 405 410 415
 Pro Ala Gln Gly Asn Val Asp Thr Pro Gly Ser Glu Asp Thr Met Glu
 420 425 430
 Ser Arg Arg Ser Ser Met Ala Ser Thr Ser Ser Thr Phe Phe Asp Thr
 435 440 445
 Ser Ser Ile Gly Gly Pro Cys Arg Ile Arg Met Leu Met Leu Lys His
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 Arg Cys Met Ile Arg Arg Cys Arg Leu Leu Ile Leu Ile Arg Leu Phe
 465 470 475 480
 Arg Ile Trp Gly Ile Gln Ile Ser Val Val Tyr Ser Thr Ile Gln His
 485 490 495
 Pro Pro Arg Asp Thr Thr Asp Asn Gly Ala Arg Leu Leu Gly Asn Pro
 500 505 510
 Ser Ala Gly Ile Gln Ser Thr Tyr Ala Arg Leu Ala Leu Ser Gly Gly
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<210> 5

<211> 1460

<212> DNA

<213> Escherichia coli

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<210> 6

<211> 484

<212> PRT

<213> Escherichia coli

<400> 6

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Leu Pro Thr Asn Pro Leu Arg Phe Ala Ala Ser Glu Val Ser Leu His
          20             25             30

```

```

Gly Ala Leu Glu Val Leu His Asp Lys Gly Gly Leu Asp Thr Leu Asn
          35             40             45

```

```

Ser Ala Ile Gly Ser Ser Leu Phe Arg Val Glu Thr Arg Asp Asp Gly
          50             55             60

```

```

Ser His Val Ala Ile Gly Gln Lys Asn Gly Leu Glu Thr Thr Val Val
          65             70             75             80

```

```

Leu Ser Glu Gln Glu Phe Ser Ser Leu Gln Ser Leu Asp Pro Glu Gly
          85             90             95

```


Lys	Asn	Lys	Phe	Val	Phe	Thr	Gly	Gly	Arg	Gly	Gly	Pro	Gly	His	Ala			
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Met	Val	Thr	Val	Ala	Ser	Asp	Ile	Ala	Glu	Ala	Arg	Gln	Arg	Ile	Ile			
		115					120					125						
Asp	Lys	Leu	Glu	Pro	Lys	Asp	Thr	Lys	Glu	Thr	Lys	Glu	Pro	Gly	Asp			
	130					135					140							
Pro	Asn	Ser	Gly	Glu	Gly	Lys	Ile	Ile	Glu	Ile	His	Thr	Ser	Thr	Ser			
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Ile	Ala	Ala	Gly	Leu	Ile	Gly	Met	Ala	Ala	Thr	Gly	Ile	Ala	Gln	Ala			
			180					185					190					
Val	Ala	Leu	Thr	Pro	Glu	Pro	Asp	Asp	Pro	Ile	Thr	Thr	Asp	Pro	Asp			
		195					200					205						
Ala	Ala	Ala	Asn	Thr	Ala	Glu	Ala	Ala	Ala	Lys	Asp	Gln	Leu	Thr	Lys			
	210					215					220							
Glu	Ala	Phe	Gln	Asn	Pro	Asp	Asn	Gln	Lys	Val	Asn	Ile	Asp	Glu	Asn			
225				230					235					240				
Gly	Asn	Ala	Ile	Pro	Ser	Gly	Glu	Leu	Lys	Asp	Asp	Val	Val	Ala	Gln			
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Ile	Ala	Glu	Gln	Ala	Lys	Ala	Ala	Gly	Glu	Gln	Ala	Arg	Gln	Glu	Ala			
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Ile	Glu	Ser	Asn	Ser	Gln	Ala	Gln	Gln	Lys	Tyr	Asp	Glu	Gln	His	Ala			
	275						280					285						
Lys	Arg	Glu	Gln	Glu	Met	Ser	Leu	Ser	Ser	Gly	Val	Gly	Tyr	Gly	Ile			
	290					295					300							
Ser	Gly	Ala	Leu	Ile	Leu	Gly	Gly	Gly	Ile	Gly	Ala	Gly	Val	Thr	Ala			
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Ala	Leu	His	Arg	Lys	Asn	Gln	Pro	Ala	Glu	Gln	Thr	Ile	Thr	Thr	Arg			
				325					330					335				
Thr	Val	Val	Asp	Asn	Gln	Pro	Thr	Asn	Asn	Ala	Ser	Ala	Gln	Gly	Asn			
			340					345					350					

Thr Asp Thr Ser Gly Pro Glu Glu Ser Pro Ala Ser Arg Arg Asn Ser
 355 360 365

Asn Ala Ser Leu Ala Ser Asn Gly Ser Asp Thr Ser Ser Thr Gly Thr
 370 375 380

Val Glu Asn Pro Tyr Ala Asp Val Gly Met Pro Arg Asn Asp Ser Leu
 385 390 395 400

Ala Arg Ile Ser Glu Glu Pro Ile Tyr Asp Glu Val Ala Ala Asp Pro
 405 410 415

Asn Tyr Ser Val Ile Gln His Phe Ser Gly Asn Ser Pro Val Thr Gly
 420 425 430

Arg Leu Val Gly Thr Pro Gly Gln Gly Ile Gln Ser Thr Tyr Ala Leu
 435 440 445

Leu Ala Ser Ser Gly Gly Leu Arg Leu Gly Met Gly Gly Leu Thr Gly
 450 455 460

Gly Gly Glu Ser Ala Val Ser Thr Ala Asn Ala Ala Thr Pro Gly Pro
 465 470 475 480

Ala Arg Phe Val

<210> 7

<211> 30

<212> PRT

<213> Escherichia coli

<400> 7

Pro Ile Gly Asn Leu Gly Asn Asn Val Asn Gly Asn His Leu Ile Pro
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Pro Ala Pro Pro Leu Pro Ser Gln Thr Asp Gly Ala Ala Arg
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<210> 8

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

Sequence

<400> 8

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26

<210> 9

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer
Sequence

<400> 9

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30